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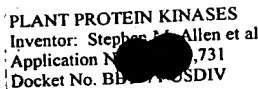
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APPROVED	O.G. FIG. —	
BY	CLASS	SUBCLASS
DRAFTSMAN	800	295

361 420
SEQ ID NO:10 SPKLRSTALEALVHPF-FDEL RDPNTRL PNGRFLPPLFNFKPHLKNVPADF MVKLVPEH
SEQ ID NO:12 -----
SEQ ID NO:14 SPNL RCTVLDALDAPFPLDEF RDPNRLP NGRPIXP TTINSNP-----
SEQ ID NO:16 SPNL RCTALDACAHSF-FDEL REP NARLP NGRPFPP LFNFKP-ELANASPELINRLVPEH
SEQ ID NO:21 SPNLSAALDTLVHPF-FDEL RDPNARLP NGRFLPPAFHFKPHLKGVPLEMVAKLVPEH
SEQ ID NO:22 SPNLRSTALEALVHPF-YDDVRDPNTRL PNGRFLPPLFNFKVNELKGVPAEMLVKLVPPH
SEQ ID NO:23 SPNLR CQALDCLTHPF-FDEL RDPNARLP TGRFLPPLFNFKPHLKGVPVETLMKLVPEH
SEQ ID NO:24 SPSLRCTALEACAHPF-FNEL REP NARLP NGRPLPPLFNFKQ-ELGGASME LINRLIPEH

421 434
SEQ ID NO:10 ARKQCAF---VGW-
SEQ ID NO:12 -----
SEQ ID NO:14 -----
SEQ ID NO:16 VRRQNGPNFAHAGS
SEQ ID NO:21 ARKQCPW---LGL-
SEQ ID NO:22 ARKQCAL---FGSS
SEQ ID NO:23 ARKQCPF---LGL-
SEQ ID NO:24 VRRQMSTGLQN--S

FIG. 2C



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APPROVED	O.G. FIG. —	
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1	60
SEQ ID NO: 10	M-----ASVGVARSSGLGFQN--GTSSSSDPRLPNELGSMISIRDDKDVE
SSEQ ID NO: 12	M-----GSVXVAPSGLNSSXTSMGA---EKLPDQMHDLKIRDDKEXE
SSEQ ID NO: 14	MVFEQQQLKEKRDSAKMTSVGVAPTS-GLREASGHGAAGVDR-LPEEMNDMKIRDDREME
SSEQ ID NO: 16	M-----E-----HPAPAPEPMLLDEQPPTAVACE-----KKQQDGE
SSEQ ID NO: 21	M-----ASVGIAPNP-GARD-----STGVDK-LPEEMNDMKIRDDKEME
SSEQ ID NO: 22	M-----MASGGVAPAS-GFIDK-NASSVGVEK-LPEEMNDMKIRDDKEME
SSEQ ID NO: 23	M-----ASVGVAPTS-GFREVLGDGEIGVDDILPEEMSDMKIRDDREME
SSEQ ID NO: 24	M-----ASPLGPGPHALAPPLQLHDGDALKRRPE-----LDSDKEMS

[illegible]

121	180
IKKVLQDKRYKNRELQTMRLDHPNVVALKHCFEFTTEKDELYLNLVLEYVVPETAHRAVIK	IKKVLQDKRYKNRELQTMRLDHPNVVALKHCFEFTTEKDELYLNLVLEYVVPETAHRAVIK
IKXVL-----	IKXVL-----
IKKVLQDKRYKNRELQTMRLLDHPNVVALKHCFEFTTEKDELYLNLVLEYVVPETVNRVIK	IKKVLQDKRYKNRELQTMRLLDHPNVVALKHCFEFTTEKDELYLNLVLEYVVPETVNRVIK
IKKVLQDRRYKNRELQLMRSMIHSNVVSLKHCFEFTTSRDELFNLVMHEYVPETLYRVLK	IKKVLQDRRYKNRELQLMRSMIHSNVVSLKHCFEFTTSRDELFNLVMHEYVPETLYRVLK
IKKVLQDRRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVVPETVHRAVIK	IKKVLQDRRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVVPETVHRAVIK
IKKVLQDKRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVVPETVSRVIR	IKKVLQDKRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVVPETVSRVIR
IKKVLQDKRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVVPETVHRAVIK	IKKVLQDKRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVVPETVHRAVIK
IKKVLQDRRYKNRELQLMRPMDPNVISLKHCFEFTTSRDELFNLVMHEYVPETLYRVLR	IKKVLQDRRYKNRELQLMRPMDPNVISLKHCFEFTTSRDELFNLVMHEYVPETLYRVLR

FIG. 2A

APPROVED	O.G. FIG. _____	
BY	CLASS	SUBCLASS
DRAFTSMAN	800	295



PLANT PROTEIN KINASES
Inventor: Steven Allen et al
Application No. 09/044,731
Docket No. BB1171 USDIV

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SEQ ID NO:10	181	240
SEQ ID NO:12		
SEQ ID NO:14		
SEQ ID NO:16		
SEQ ID NO:21		
SEQ ID NO:22		
SEQ ID NO:23		
SEQ ID NO:24		

SEQ ID NO:10	241	300
SEQ ID NO:12		
SEQ ID NO:14		
SEQ ID NO:16		
SEQ ID NO:21		
SEQ ID NO:22		
SEQ ID NO:23		
SEQ ID NO:24		

SEQ ID NO:10	301	360
SEQ ID NO:12		
SEQ ID NO:14		
SEQ ID NO:16		
SEQ ID NO:21		
SEQ ID NO:22		
SEQ ID NO:23		
SEQ ID NO:24		

FIG. 2B

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS
800	295



PLANT PROTEIN KINASES
Inventor: Stephen Allen et al
Application No. 08/4731
Docket No. BB177 USDIV

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181	240
SEQ ID NO:2	LKRRTENLKDYSGLRRLLGQGFQGTYYLCVERAT-----GKEFACKSILKX-LVTDDDDVE
SEQ ID NO:4	FGF-SKNFGAKYELGKEVGRGHFG--HTCSAVVKKGEYKGQTVAVKIIAKAKMTTAISIE
SEQ ID NO:6	FGF-AKQFSAHYELSDXGRGHFG--YTCSAKGKGAFKGLNVAVKVIPKAKMTTAIAIE
SEQ ID NO:8	-----
SEQ ID NO:17	LRRKTENLKDYSGLRRLLGQGFQGTTHLCVERAT-----GKELACKSILKRLGSDDDVE
SEQ ID NO:18	FGF-AKNFGAKYDLGKEVGRGHFG--HTCSAVVKKGEHKGHTVAVKIIISKAKMTTAISIE
SEQ ID NO:19	FGF-SKQFASHYIEDGEVGRGHFG--YTCSAKGKGKGLKQGEVAVKVIKSKMTTAIAIE
241	300
SEQ ID NO:2	DVRREIQIMHHLAGHPNVISIRGAYEDAVAV-----
SEQ ID NO:4	DVRREVKILRALSGHNNLVKFYDAGEDGLNVYIVMELCEGGELLDRLARGGRYTEEDAK
SEQ ID NO:6	DVRREVKILRALTGHNKLVQFYEAIEDD-----
SEQ ID NO:8	-----ELDKILARGGKYSEEDAK
SEQ ID NO:17	DVRREIQIMHHLAGHPNVVVGIRGAYEDAVAVHLMELCGGGELFDRIVRRG-HYTERKAA
SEQ ID NO:18	DVRREVKILKALSGHDNLVRFYDAGEDALNVYIVMELCEGGELLDRLARGGRYTEEDAK
SEQ ID NO:19	DVSREVKMLRALTGHNKLVQFYDAFEDDENNVYIVMELCKGGELLDKILQRRGGKYSEDDAK
301	360
SEQ ID NO:2	-----
SEQ ID NO:4	AIVVQILSVVAFCHLQGVVHRDLKPENFLTTRDENAPMKLIDFGLSDFIRPDERLNDIV
SEQ ID NO:6	-----
SEQ ID NO:8	VVMLQILSVVSFCHLQGVVHRDLKPENFLFSKEENSPLKVIDFGLSDFVVKPDERLNDIV
SEQ ID NO:17	ELARVIVGVVEACHSMGMVHRDLKPENFLFADHSEEAALKTIDFGLSIFFRPGQIFTDVW
SEQ ID NO:18	AIIVQILSVVAFCHLQGVVHRDLKPENFLTTRDESAPMKLIDFGLSDFIRPDERLNDIV
SEQ ID NO:19	KVMVQILSVWAYCHLQGVVHRDLKPENFLFSTKDETSPLKAIDFGLSDYVVKPDERLNDIV

FIG. 1B



PLANT PROTECT KINASES
Inventor: Steven Allen et al
Application No. 09/854,731
Docket No. BB1171 USDIV

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APPROVED BY	O.G. FIG.	CLASS	SUBCLASS
DRAFTSMAN	800	295	

541	600
SEQ ID NO:2	-----
SEQ ID NO:4	VLEFLHALEPLAYRRMDFEEFCAAAI SPYQLEALERWEEIAGTAFQFEQEGNRVISVEE
SEQ ID NO:6	-----
SEQ ID NO:8	-----
SEQ ID NO:17	IYALMQAADVDNNGTIDYGEFIAATL---HLNKVER-EDHLFAAFQYFDKDGSGYITADE
SEQ ID NO:18	VLEFQHALEPLAYRKMDFFEEFCAAAI SPYQLEALERWEEIAGTAFQHFEEQEGNRVISVEE
SEQ ID NO:19	VFDFVHMISCLQYKKKLDFFEEFCASALS VYQLEAMETWEQHARRAYELFEKDGNRPI MIEE
601	660
SEQ ID NO:2	-----
SEQ ID NO:4	LA---QELNLAPTH--YSIVQDWIRKSDGKLNFLGFTKFLHGV TIRGSNTRR-----
SEQ ID NO:6	-----
SEQ ID NO:8	-----
SEQ ID NO:17	LQVACEEFGLGDVQ-LEDLIGEVDQNDGRIDYNEFVAMMQKPTVGGRRRPI CRTASAS
SEQ ID NO:18	LA---QELNLAPTH--YSIVQDWIRKSDGKLNFLGFTKFLHGV TIRGSNTRR-----
SEQ ID NO:19	LA---SELGLGPSVPVHVVLQDWIRHSDGKLSFLGFVRL LHGVSSR--TLQK-----
661	690
SEQ ID NO:2	-----
SEQ ID NO:4	-----H-----
SEQ ID NO:6	-----D-----
SEQ ID NO:8	-----
SEQ ID NO:17	GSASGSGRRSGWPRPLCLWLPCCLRVGVDD
SEQ ID NO:18	-----H-----
SEQ ID NO:19	-----A-----

FIG. 1D

APPROVED	O.G. FIG. <u> </u>	
BY	CLASS	SUBCLASS
DRAFTSMAN	800	295



PLANT PROTEIN KINASES
Inventor: Allen et al
Application No. 854,731
Docket No. BB1171 USDIV

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1	60
SEQ ID NO:2	-----
SEQ ID NO:4	MGQ-CYKGASGRTADDEGGVVTEHQSPPPANGLPSTPPRQQAQAQVGTTPRRRGSKS
SEQ ID NO:6	-----
SEQ ID NO:8	-----
SEQ ID NO:17	MGNTCVGPSITMNGFFQSVSTAL-WKTPQEGDALPAAANGPGGPAGA-----GSQS
SEQ ID NO:18	MGQ-CYKGARGASSRAD-----HDADPSGAG-SVAPPSPLPANGAPLPATPRRH--KS
SEQ ID NO:19	MGI-CHGKPVQQSKS-----LPVSGETNEAPTNSQPPAK-----
61	120
SEQ ID NO:2	-----
SEQ ID NO:4	GSTTPGHQ-----TPGVA-WSPYPGGASPLPAGVSPSPA-----RSTPRFFFKRPFPF
SEQ ID NO:6	-----NPSXLPWFKNPSSNSNPSSXPLXIFKXPFPF
SEQ ID NO:8	-----
SEQ ID NO:17	ALPKPASDVHHVAVQSEAPEPVKIAAYHSEPAVRSEAPEPVKIAASHSE-----PA
SEQ ID NO:18	GSTTPVHH-HQAATPGAAWSPYPAGGASPLPAGVSPSPA-----RSTPRFFFKRPFPF
SEQ ID NO:19	-----SSGFFPYSPSPVPSLFKSSPSVSSVSTPLRIFKRPFPF
121	180
SEQ ID NO:2	-----PPVKRVSSAGLLVGSV
SEQ ID NO:4	PSPAKHIKATLAKRLGGGKPKGTIPEEGVGAGGGGG-----GAADGAETERPLDKT
SEQ ID NO:6	PSPAKHIRALLARXHGSVKPNEASIPE-----ASXCELGLDKS
SEQ ID NO:8	-----
SEQ ID NO:17	PMAAKP-----GGAANASPSPPRPPQVKRVSSAGLLLSV
SEQ ID NO:18	PSPAKHIKATLAKRLGGGKPKGTIPEEGGAGAGAGAGAAVGAADSAAEDRPLDKT
SEQ ID NO:19	PSPAKHIRAFLARRYGSVKPNEVSIPE-----GKECEIGLDKS

FIG. 1A